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By: Angelie Ravein

PATENT

Attorney Docket No.: 14538A-004510US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

James M. Roberts *et al.*

Application No.: 09/980,758

Filed: November 13, 2001

For: METHODS FOR INCREASING
PLANT CELL PROLIFERATION
BY FUNCTIONALLY
INHIBITING A PLANT CYCLING
INHIBITOR GENE

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE
STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following U.S. Patents are set forth below by issue date.

- AA. U.S. Patent No. 5,283,173, issued on February 1, 1994 to Fields *et al.*
- AB. U.S. Patent No. 5,583,210, issued on December 10, 1996 to Neill *et al.*
- AC. U.S. Patent No. 5,688,665, issued on November 18, 1997 to Massague *et al.*
- AD. U.S. Patent No. 5,750,862 issued on May 12, 1998 to John, Peter

The following foreign patent publications are set forth by approximate publication date:

- AE. WO 99/14331, published on March 25, 1999, applicant: Cropdesign NV
- AF. WO 99/64599, published on December 16, 1999, applicant: Agriculture and Agrifood Canada, *et al.*

The following articles are set forth in alphabetical order:

AG. Bai and Elledge, "Gene identification using the yeast two-hybrid System," *Methods in Enzymology* 273:331-347 (1996)

AH. Bartel *et al.*, "Using the two-hybrid system to detect protein-protein interactions," in Cellular Interaction in Development: A Practical Approach, Ed. Hartley, Oxford University Press, Oxford, ENGLAND, pp. 153-179 (1993)

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- BE. Hirayama *et al.*, "Identification of two cell-cycle-controlling *cdc2* gene homologs in *Arabidopsis thaliana*," *Gene* 105:159-165 (1991)

- BF. Hirt *et al.*, "Complementation of a yeast cell cycle mutant by an alfalfa cDNA encoding a protein kinase homologous to p34^{cdc2}," *Proc. Natl. Acad. Sci USA* 88:1636-1640 (1991)
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- BL. Jeffrey *et al.*, "Mechanism of CDK activation revealed by the structure of a cyclinA-CDK2 complex," *Nature* 376:313-320 (1995)
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- BS. Matsuoka *et al.*, "p57^{KIP2}, a structurally distinct member of the p21^{CIP1} Cdk inhibitor family, is a candidate tumor suppressor gene," *Genes Dev.* 9:650-662 (1995)
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- BU. Mengiste *et al.*, "Prospects for the Precise Engineering of Plant Genomes by Homologous Recombination," *Biol. Chem.* 380:749-758 (1999)
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- BW. Morgan, "Principles of CDK regulation," *Nature* 374:131-134 (1995)
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- BZ. Pardee, "A restriction point for control of normal animal cell proliferation," *Proc. Natl. Acad. Sci. USA* 71:1286-1290 (1974)
- CA. Pines, J. "Cyclins and cyclin-dependent kinases: a biochemical view," *Biochem J.* 308:697-711 (1995)
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- CD. Resnitzky and Reed, "Different roles for cyclins D1 and E in regulation of the G₁-to-S transition," *Mol. Cell. Biol.* 15:3463-3469 (1995)
- CE. Rose *et al.*, "Consensus-degenerate hybrid oligonucleotide primers for amplification of distantly-related sequences," *Nucleic Acids Res.* 26:1628-1635 (1998)

- CF. Serrano *et al.*, "A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4," *Nature* 366:704-707 (1993)
- CG. Sherr, C. *et al.*, "CDK inhibitors: positive and negative regulators of G₁-phase progression," *Genes Develop.* 13:1501-1512 (1999)
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- CJ. Solomon *et al.*, "CAK, the p34^{cdc2} activating kinase, contains a protein identical or closely related to p40^{MO15}," *EMBO J.* 12:3133-3142 (1993)
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CR. Valancius, *et al.*, "Testing an "In-Out" targeting procedure for making subtle genomic modifications in mouse embryonic stem cells," *Mol. Cell. Biol.* 3:1402-1408 (1991)

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CU. Wang *et al.*, "A plant cyclin-dependent kinase inhibitor gene," *Nature* 386:451-452 (1997)

CV. Wang *et al.*, "ICK1, a cyclin-dependent protein kinase inhibitor from *Arabidopsis thaliana* interacts with both Cdc2a and CycD3, and its expression is induced by abscisic acid," *Plant J.* 15:501-510 (1998)

CW. Waterhouse *et al.*, "Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA," *Proc. Natl. Acad. Sci. USA* 95:13959-13964 (1998)

CX. Xiong *et al.*, "p21 is a universal inhibitor of cyclin kinases," *Nature* 366:701-703 (1993)

CY. Zetterberg *et al.*, "Kinetic analysis of regulatory events in G₁ leading to proliferation or quiescence of Swiss 3T3 cells," *Proc. Natl. Acad. Sci. USA* 82:5365-5369 (1985)

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicant respectfully requests that the Examiner review the foregoing references to make his own determination of the patentability of the present invention and that the references be made of record in the file of this application.

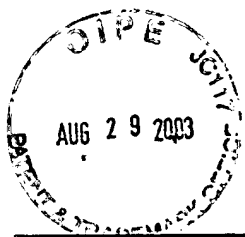
Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Dated: 26 August 2003

By: Brian W. Poor
Brian W. Poor
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FORM PTO-1449 (Modified)				Attorney Docket No.: 14538A-004510US		Application No.: 09/980,758	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant: James M. Roberts <i>et al.</i>			
				Filing Date: November 13, 2001		Group: Unassigned	
Reference Designation				U.S. PATENT DOCUMENTS		Page 1 of 4	
Examiner Initial		Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
	AA	5,283,173	02-01-1994	Fields <i>et al.</i>			
	AB	5,583,210	12-10-1996	Neill <i>et al.</i>			
	AC	5,688,665	11-18-1997	Massague <i>et al.</i>			
	AD	5,750,862	5-12-1998	John, P.			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
	AE	99/14331	03-25-1999	WO			
	AF	99/64599	12-16-1999	WO			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AG	Bai and Elledge, "Gene identification using the yeast two-hybrid System," <i>Methods in Enzymology</i> 273:331-347 (1996)					
	AH	Bartel <i>et al.</i> , "Using the two-hybrid system to detect protein-protein interactions," in <u>Cellular Interaction in Development: A Practical Approach</u> , Ed. Hartley, Oxford University Press, Oxford, ENGLAND, pp. 153-179 (1993)					
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	AK	Clark <i>et al.</i> , "The <i>CLAVATA</i> and <i>SHOOT MERISTEMLESS</i> loci competitively regulate meristem activity in <i>arabidopsis</i> ," <i>Development</i> 122:1567-1575 (1996)					
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